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1 Asynchronous view maintenance for VLSD databases
Parag Agrawal, Adam Silberstein, Brian F. Cooper, Utkarsh Srivastava, Rag
June 2009   **SIGMOD '09:** Proceedings of the 35th SIGMOD international co
                    data
Publisher: ACM 💠 Request Permissions
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The query models of the recent generation of *very large scale distribute*
data storage systems, including our own PNUTS and others (e.g. BigTat
etc.) are intentionally simple, focusing on simple lookups ...

Keywords: distributed and parallel databases, indexes, views

2 Threats to privacy in the forensic analysis of database systems
Patrick Stahlberg, Gerome Miklau, Brian Neil Levine
June 2007   **SIGMOD '07:** Proceedings of the 2007 ACM SIGMOD internatio
                    Management of data
Publisher: ACM 💠 Request Permissions
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Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 333,   Citatic

The use of any modern computer system leaves unintended traces of e>
users' past activities. In this paper, we investigate the unintended persi
database systems. This data can be recovered by forensic ...

Keywords: forensics, privacy, transparency

3 Maintaining bounded-size sample synopses of evolving datasets
Rainer Gemulla, Wolfgang Lehner, Peter J. Haas
March 2008 **The VLDB Journal — The International Journal on Very L**
              Issue 2
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 Pdf (833.98 KB)   Additional Information: full citation, abstract, in

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 53,   Citation

Perhaps the most flexible synopsis of a database is a uniform random sa
samples are widely used to speed up processing of analytic queries and
query optimization, and facilitate information integration. ...

Keywords: Database sampling, Reservoir sampling, Sample maintenar

4 A software engineering perspective on algorithmics

Karsten Weihe

March 2001 **Computing Surveys (CSUR)** , Volume 33 Issue 1

Publisher: ACM ◈〉 Request Permissions

Full text available: Pdf (1.62 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 54,   Downloads (12 Months): 237,   Citatic

An algorithm component is an implementation of an algorithm which is
alone module, but to perform a specific task within a large software pac
distinct software packages. Therefore, ...

Keywords: algorithm engineering

5 Maintenance of *K*-nn and spatial join queries on continuously movin(

Glenn S. Iwerks, Hanan Samet, Kenneth P. Smith

June 2006   **Transactions on Database Systems (TODS)** , Volume 31 Issue

Publisher: ACM ◈〉 Request Permissions

Full text available: Pdf (2.49 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 119,   Citatic

Cars, aircraft, mobile cell phones, ships, tanks, and mobile robots all ha
that they are moving objects. A kinematic representation can be used t(
these objects as a function of time. For example, a moving ...

Keywords: *k*-nearest neighbor, Moving object databases, continuously
view maintenance, spatial join, temporal databases

6 Probabilistic top-*k* and ranking-aggregate queries

Mohamed A. Soliman, Ihab F. Ilyas, Kevin Chen-Chuan Chang

August 2008 **Transactions on Database Systems (TODS)** , Volume 33 Issue

Publisher: ACM ◈〉 Request Permissions

Full text available: Pdf (1.35 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 25,   Downloads (12 Months): 348,   Citatic

Ranking and aggregation queries are widely used in data exploration, d:
making scenarios. While most of the currently proposed ranking and ag(
on deterministic data, several emerging applications involve ...

Keywords: Query processing, aggregation, probabilistic data, ranking,

7 Communications of the ACM: Volume 52 Issue 6

June 2009   Communications of the ACM

Publisher: ACM

Full text available: Digital Edition , Pdf (6.34 MB) Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 8848,   Downloads (12 Months): 8848,   Ci

8 A survey of top-*k* query processing techniques in relational database

Ihab F. Ilyas, George Beskales, Mohamed A. Soliman

October 2008 **Computing Surveys (CSUR)** , Volume 40 Issue 4

Publisher: ACM ◈〉 Request Permissions

Full text available: Pdf (2.02 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 128,   Downloads (12 Months): 1640,   Cit

Efficient processing of top-k queries is a crucial requirement in many int involve massive amounts of data. In particular, efficient top-k processin Web, multimedia search, and distributed ...

Keywords: Top-k, rank aggregation, rank-aware processing, voting

9 ObjectGlobe: Ubiquitous query processing on the Internet
R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam,
August 2001 **The VLDB Journal — The International Journal on Very L**
         Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: Pdf (251.44 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 70,   Citation

We present the design of ObjectGlobe, a distributed and open query prc sources. Today, data is published on the Internet via Web servers which query processing capabilities. The goal of the ObjectGlobe ...

Keywords: Cycle-, function- and data provider, Distributed query proce Privacy, Quality of service, Query optimization, Security

10 Hancock: A language for analyzing transactional data streams
Corinna Cortes, Kathleen Fisher, Daryl Pregibon, Anne Rogers, Frederick Si
March 2004 **Transactions on Programming Languages and Systems (**
Publisher: ACM Request Permissions
Full text available: Pdf (217.55 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 14,   Downloads (12 Months): 100,   Citatic

Massive transaction streams present a number of opportunities for data transactions in such streams might represent calls on a telephone netwo purchases, stock market trades, or HTTP requests to a web ...

Keywords: Domain-specific languages, data mining, statistical models

11 Robust approximate aggregation in sensor data management systen
Jeffrey Considine, Marios Hadjieleftheriou, Feifei Li, John Byers, George Ko
April 2009 **Transactions on Database Systems (TODS)** , Volume 34 Issue
Publisher: ACM Request Permissions
Full text available: Pdf (694.94 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 47,   Downloads (12 Months): 80,   Citation

In the emerging area of sensor-based systems, a significant challenge is tolerant methods to extract useful information from the data the sensor data management problem is the use of sensor database ...

Keywords: Sensor databases, aggregation, approximation algorithms,

12 Query by output
Quoc Trung Tran, Chee-Yong Chan, Srinivasan Parthasarathy
June 2009 **SIGMOD '09:** Proceedings of the 35th SIGMOD international co

data
Publisher: ACM ◈ Request Permissions
Full text available: ▦ Pdf (693.97 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 10, Citatior

It has recently been asserted that the usability of a database is as impo
Understanding the database schema, the hidden relationships among at
an important role in this context. Subscribing to this ...

Keywords: at-least-one semantics, instance-equivalent queries, query

13 The intrinsic problems of structural heterogeneity and an approach to
Theo Härder, Günter Sauter, Joachim Thomas
April 1999   **The VLDB Journal — The International Journal on Very La**
     Issue 1
Publisher: Springer-Verlag New York, Inc.
Full text available: ▦ Pdf (132.99 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 42, Citation

This paper focuses on the problems that arise when integrating data fro
a single, unified database view. At first, we give a detailed analysis of th
heterogeneity that occur when unified views are derived ...

Keywords: Heterogeneity, Legacy systems, Mapping language, Schem
mapping, Updatable views

14 Efficient gathering of correlated data in sensor networks
Himanshu Gupta, Vishnu Navda, Samir Das, Vishal Chowdhary
January 2008 **Transactions on Sensor Networks (TOSN)** , Volume 4 Issue 1
Publisher: ACM ◈ Request Permissions
Full text available: ▦ Pdf (488.21 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 472, Citatic

In this article, we design techniques that exploit data correlations in ser
communication costs (and hence, energy costs) incurred during data ga
Our proposed approach is to select a small subset of sensor ...

Keywords: Correlated Data, Energy Efficiency, Topology Control

15 Efficient allocation algorithms for OLAP over imprecise data
Doug Burdick, Prasad M. Deshpande, T. S. Jayram, Raghu Ramakrishnan,
September 2006 **VLDB '06:** Proceedings of the 32nd international conferenc
Publisher: VLDB Endowment
Full text available: ▦ Pdf (682.58 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 31, Citation

Recent work proposed extending the OLAP data model to support data a
imprecision and uncertainty. A process called allocation was proposed to
fact table into a form, called the Extended Database, that ...

16 Relaxed-currency serializability for middle-tier caching and replicatio
Philip A. Bernstein, Alan Fekete, Hongfei Guo, Raghu Ramakrishnan, Prade
June 2006   **SIGMOD '06:** Proceedings of the 2006 ACM SIGMOD internatic

Management of data

Publisher: ACM Request Permissions

Full text available: Pdf (418.33 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 10,   Downloads (12 Months): 127,   Citatic

Many applications, such as e-commerce, routinely use copies of data th;
database due to heuristic caching strategies used to enhance performar
control for a transactional model that allows update transactions ...

Keywords: caching, database, freshness constraint, replication, serializ

17 On-the-fly sharing for streamed aggregation
Sailesh Krishnamurthy, Chung Wu, Michael Franklin
June 2006   **SIGMOD '06:** Proceedings of the 2006 ACM SIGMOD internatic
Management of data

Publisher: ACM Request Permissions

Full text available: Pdf (1.11 MB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 22,   Downloads (12 Months): 176,   Citatic

Data streaming systems are becoming essential for monitoring applicati
and network intrusion detection. These systems often have to process n
queries over common data. Since executing each query ...

Keywords: aggregation, multiple-query optimization, shared processin

18 Efficient maintenance techniques for views over active documents
Serge Abiteboul, Pierre Bourhis, Bogdan Marinoiu
March 2009   **EDBT '09:** Proceedings of the 12th International Conference or
Technology: Advances in Database Technology

Publisher: ACM Request Permissions

Full text available: Pdf (551.01 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 32,   Citatior

Many Web applications are based on dynamic interactions between Wet
flows of information. Such a situation arises for instance in mashup syst
distributed autonomous systems. Our work is in this challenging ...

19 Data currency in replicated DHTs
Reza Akbarinia, Esther Pacitti, Patrick Valduriez
June 2007   **SIGMOD '07:** Proceedings of the 2007 ACM SIGMOD internatic
Management of data

Publisher: ACM Request Permissions

Full text available: Pdf (415.23 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 13,   Downloads (12 Months): 111,   Citatic

Distributed Hash Tables (DHTs) provide a scalable solution for data shai
ensure high data availability, DHTs typically rely on data replication, yet
guarantees. Supporting data currency in replicated DHTs is ...

Keywords: data currency, data dvailability, data replication, distributec
peer

20

Optimizing complex queries with multiple relation instances

Yu Cao, Gopal C. Das, Chee-Yong Chan, Kian-Lee Tan

June 2008 **SIGMOD '08:** Proceedings of the 2008 ACM SIGMOD internatic
Management of data

Publisher: ACM Request Permissions

Full text available: Pdf (615.94 KB)   Additional Information: full citation, abstract, re

Bibliometrics: Downloads (6 Weeks): 27, Downloads (12 Months): 308,   Citatic

Today's query processing engines do not take advantage of the multiple
a query to improve performance. Instead, each instance is treated as a
own independent table access method. In this paper, ...

Keywords: interleaved execution, query optimization, query processinc

Res